

WHAT IS CLAIMED IS:

1. A method of manufacturing a liner sock device,
comprising the steps of:

providing an internal sock element having a
closed first end and an open second end;

dipping at least a portion of said first
internal sock element into a molten elastomeric material,
thereby producing a layer of elastomeric material on said
portion of said first internal sock element;

providing an external sock element having a
closed first end and an open second end;

placing said external sock element over said
layer of elastomeric material on said first internal sock
element;

heating said layer of elastomeric material to
bond said external sock layer to said layer of
elastomeric material; and

joining said second end of said internal sock
element to said second end of said external sock element.

2. The method according to Claim 1, further including
the step of creating an aperture that extends through

said first end of said external sock element, said first end of said internal sock element and said layer of elastomeric material therebetween.

3. The method according to Claim 2, further including the step of attaching a first reinforcement patch to said external sock element, wherein said aperture is created through said first reinforcement patch.

4. The method according to Claim 3, further including the step of attaching a second reinforcement patch to said internal sock structure, wherein said aperture is created through said second reinforcement patch.

5. The method according to Claim 1, wherein said step of dipping at least a portion of said internal sock element includes coating between half and all of said internal sock element.

6. The method according to Claim 1, wherein said elastomeric material includes a tri-block copolymer based gel.

7. The method according to Claim 6, wherein said tri-block copolymer is selected from a group consisting of poly(styrene-ethylene-butylene-styrene and poly(styrene-ethylene-propylene-styrene).

8. A method of manufacturing a liner sock, comprising the steps of:

providing a sock element having an open top, a closed toe, an interior surface and an exterior surface;

dipping at least a portion of said exterior surface of said sock element in a volume of molten elastomeric material, wherein said elastomeric material adheres to said exterior surface and creates a layer of elastomeric material on said exterior surface; and

forming an aperture through said sock element and said layer of elastomeric material, wherein said aperture extends through said close toe of said sock element.

9. The method according to Claim 8, further including the step of attaching a reinforcement patch to said sock element that surrounds said aperture and prevents said sock element from fraying in said aperture.

10. The method according to Claim 8, further including the steps of:

providing a second sock element;

placing said second sock element over said layer of elastomeric material; and

heating said layer of elastomeric material until said second sock element bonds to said layer of elastomeric material.

11. The method according to Claim 10, wherein said aperture extends through said second sock element and said method further includes the step of attaching a reinforcement patch to said second sock element to prevent said second sock element from fraying into said aperture.

12. The method according to Claim 10, further including the step of directly connecting said open top of said sock element to said second sock element.

13. The method according to Claim 8, further including the step of dipping at least a portion of said interior

surface of said sock element in said volume of molten elastomeric material, wherein said elastomeric material adheres to said interior surface and creates a layer of elastomeric material on said interior surface.

14. The method according to Claim 8, wherein said step of dipping at least a portion of said sock element includes coating between half and all of said sock element.

15. The method according to Claim 8, wherein said elastomeric material includes a tri-block copolymer based gel.

16. The method according to Claim 8, wherein said tri-block copolymer is selected from a group consisting of poly(styrene-ethylene-butylene-styrene and poly(styrene-ethylene-propylene-styrene).